

Form EIA-176 Query System

**User's guide
Version 3.0**

EIA-176 Query System User's Guide**Table of Contents**

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Introduction

1.1 Purpose and Functions

The EIA-176 Query System is a PC-based system for users to produce reports and extract data from the EIA-176 database that is used to produce the *Natural Gas Annual*. Its purpose is to provide users with company-level data. This information is available in a format similar to the survey form for individual companies, as well as in files suitable for tabular calculation.

The query system has two functions. • The first is to provide individual company responses in a form that resembles the EIA-176 survey form. This is viewable on-line, and available in a printed form. Appendix A shows a sample EIA-176 form. Each respondent is available in the year they reported data on the form EIA-176.

- The second function is to provide files of EIA-176 data for use with other software packages. The query system provides two methods to obtain tabular data. (1) a set of 24 pre-selected queries. The information in these queries was designed to satisfy the bulk of data requests received by the EIA. Appendix B outlines the pre-selected queries and their data items. And;

(2) The second method is for user-selected queries. These queries offer users the ability to access sets of data items not included in the pre-specified queries. Appendix C outlines the available data items. Data in the pre-selected and user-selected queries includes adjustment entries made by EIA staff to ensure that EIA-176 and publication data balance.

Data sets from both query methods can be saved to separate files in a variety of popular formats that include: text, comma-delimited for spreadsheets, SDF files for use with dBase, and fixed width format for use in other software packages.

New in the pre-selected query section is a report of Name/Address data, a report detailing individual company items shown in the continuation pages of the form, and LNG activity.

1.2 Hardware and Software Requirements

The minimum hardware requirements needed to install and use the EIA-176 Query System are:

- An IBM-compatible personal computer (PC) – minimum Pentium 75 is suggested and 24 MB of RAM
- The Windows operating system 95, 98, 2000, or NT –4.0 Service Pack 3 or later)
- Internet Explorer 5.0 or higher*
- An 80-column monitor
- 15 MB of hard-drive space

2.0 Installing the Query System

2.1 Installing the EIA-176 Query System

To install the EIA-176 Query System on your PC:

- 1) Download the software from the EIA web site.
- 2) Open Windows Explorer and find the file. The name will depend on which version was selected. All executables will begin with **EIA176Qry**. The rest of the name will indicate the version of Access that was selected.
- 3) Double click on the file **EIA176Qry....exe** and follow the instructions.
- 4) As the installation begins, a 'Welcome' screen is displayed. Click the 'Next' button to continue.
- 5) The 'Select Destination Directory' screen will be displayed. Click the 'Next' button if you wish to continue the installation to the default directory – C:\Program Files\EIA176Qry. If you wish to change the default directory, click the 'Browse' button.
- 6) The 'Ready to Install' screen will be displayed. To continue with the installation click on the 'Next' button.
- 7) A progress bar will appear.
- 8) When the installation is completed the 'Installation Completed' screen will be displayed.

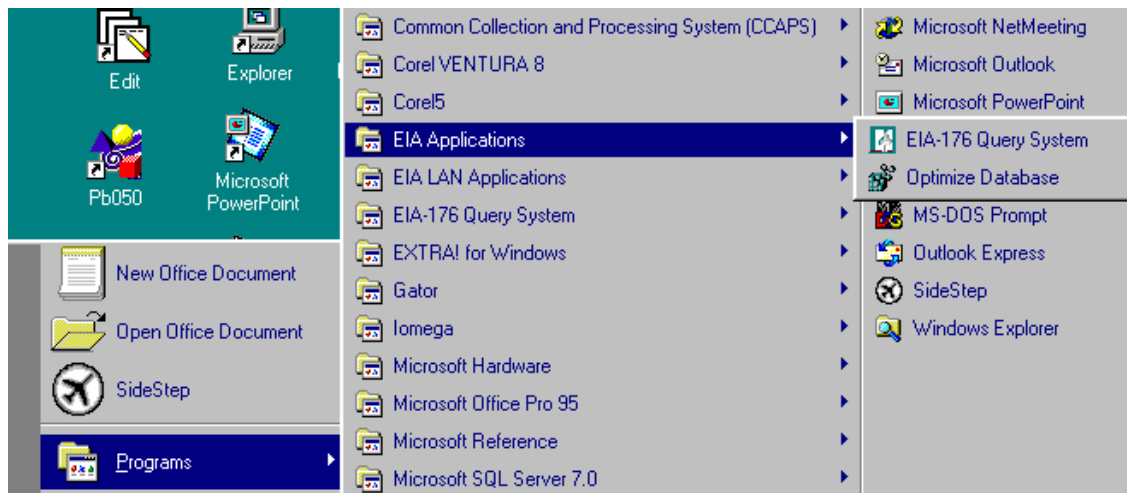
Note: In some instances you will be prompted to re-start you computer to complete the installation. This is normal and can be done immediately to use the query system, or later if so desired.

2.2 Starting the EIA-176 Query System

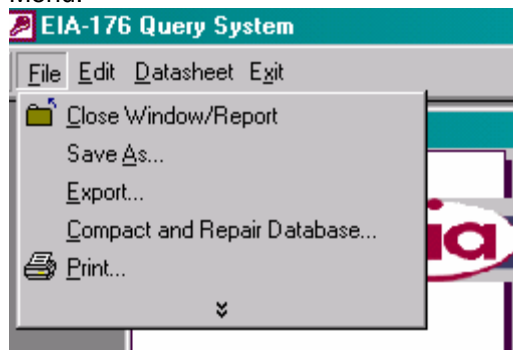
The query installation program creates a program group and a desktop icon for the EIA-176 Query System. The desktop icon starts the query system up immediately and appears on the desktop after the install program runs.

2.3 Compressing the File for best performance

The program group, which is available through the START menu has the EIA-176 Query System icon, as well as an option to Optimize (Compact and Repair) the query system.



The Optimize option should be run periodically so that the query database does not become fragmented. In the Access 2000 version the compact and repair option is available from the File Menu.



In the Access 97 version it is only available from the Program Group, as shown above.

3.0 Using the Query System

After a successful installation you can use the query system to print off individual company submissions or to generate data files from your Windows desktop by clicking the **START** button, then the **Programs** button. Select the EIA Applications items, and then click EIA-176 Query, and the Main Menu Screen of the query system is displayed, as show below:

3.1 Main Menu

76 Query System

eia Energy Information Administration

EIA-176 Query System

☐ View EIA-176 Respondents

☐ Query EIA-176 Data

☐ Exit

The most current years data are:

2003

1997
1998
1999
2000
2001
2002

Data for are also available

Visit the EIA Natural Gas web site at:
http://www.eia.doe.gov/oil_gas/natural_gas/info_glance/natural_gas.htm

View the new Natural Gas Navigator at:
http://tonto.eia.doe.gov/dnav/ng/ng_sum_top.asp

The three main options available in the EIA-176 Query system are accessed via this menu. They are:

- 1) View EIA-176 Respondents: Click this to choose individual respondents and view or print their submissions
- 2) Query EIA-176 Data: Click this to choose pre-selected or user selected queries which will allow the user to save data to PC-compatible files
- 3) Exit: This ends the EIA-176 query.

Each option is described in the sections that follow.

3.2 View EIA-176 Respondent

3.2.1 Select a Company


After clicking the **View EIA-176 Respondents** button on the **Main Menu**, the following **Choose EIA-176 Company Screen** is displayed.


- 1) Select the report year first.
- 2) Select the retrieval method

If you select a company by name you will see a list of EIA-176 company names. If you select a company in a state you will get a list of states. The companies will appear after you select a state.

3.2.1.1 Select a Company in a State

If you Select a **Company in a State** you'll see a list of states

Highlight the state(s) you want and use the single right pointing arrow  located in-between the two white boxes to move the state to the selected box.

To unselect a state use highlight it in the selected (leftmost) box and use the single left pointing arrow  to move the state out of the selected box.

Once you've selected a state click on the Select Company button to see available companies

**Select
Company**

within that state.

Use the mouse to select the company you want to view in the Companies available box. Click the right pointing arrow to move it to the selected box on the right.



3.2.1.2 Select a Company by Name

View EIA-176 Respondents - Choose Company(s)

Please enter a report year:

Choose a retrieval method

☒ Select a Company in a State

☐ Select a Company by Name

Select Respondent Name

Companies Available

AZ	ADJUSTMENT PIPELINE
AZ	BENSON CITY OF
AZ	BLACK MOUNTAIN GAS CO
AZ	CITIZENS COMMUNICATIO
AZ	CITIZENS COMMUNICATIO
AZ	EL PASO NATURAL GAS I
AZ	GILA RESOURCES
AZ	GRAHAM COUNTY UTILITI
AZ	MESA CITY OF
AZ	MOJAVE PIPELINE CO
AZ	NAVAJO TRIBAL UTIL AUT
AZ	SOUTHERN TRAILS PIPEL
AZ	SOUTHWEST GAS CO

Companies Selected

EL PASO NATURAL GAS CO	AZ
------------------------	----

You can select one or more companies by name or state.

Use the arrow buttons to select a state or company.

Select Company

View =>

Print Selections

<=Back

El Paso Natural Gas has been selected.

3.3.2 View and Print EIA-176 Respondent Submission


View =>

To view the submissions click the **View=>** button.

**Print
Selections**

To print the submission without previewing it click the **Print Selection** button.

View EIA-176 Company



ANNUAL REPORT OF NATURAL AND SUPPLEMENTAL GAS SUPPLY AND DISPOSITION
FORM EIA-176
REPORT YEAR 2002

Form Approved
OMB No. 1905-0175
Expiration Date: 11/30/03

This report is mandatory under the Federal Energy Administration Act of 1974 (Public Law 93-274). For the provisions concerning the confidentiality of information and sanctions statements, see instructions.
Title 18 USC makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.

SECTION I. RESPONDENT IDENTIFICATION

Enter the name and mailing address of the company filing the EIA-176		Complete and return by March 1, 2003 to
EIA ID Number	17603864	Energy Information Administration: U.S. Department of Energy P.O. Box 8279 Silver Spring, MD 20907 ATTN: Form EIA-176 OR Fax to: (202) 586-1076 Email to: DOG.SURVEYS@eia.doe.gov
Company Name:	EL PASO NAT GAS CO	
Operations in (State):	Ops in ARIZONA	
Address 1:		
Address 2:		
City		

View Respondent result – Preview screen

You can maximize the preview screen by clicking on the maximize button in the upper right corner.



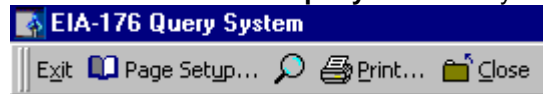
You can view subsequent pages of the preview screen by clicking the navigation buttons at the bottom of the screen.








- The right pointing arrow > takes you to later pages.
- The right arrow with the bar >| takes you to the last page.
- The left pointing arrow < takes you to earlier pages.
- The left arrow with the bar |< takes you to the first page.

3.2.2.1 View EIA-176 Company Menu

The **View EIA-176 Company Menu** lets you control this display.



-  **Exit** – Closes this application.
-  **Page Setup...** – Allow you to choose a printer and set the page orientation (portrait works best).
-  – Changes the magnification of the report.
-  **Print...** – Sends the report to the printer.
-  **Close** – Closes this report and either shows the next report if you've selected more than one, or returns you to the Choose Company screen.

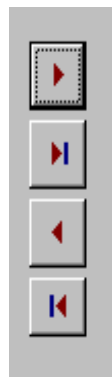
Once you've returned to the Choose Company Menu you can exit this function by clicking on the **<=Return** button.



This will return you to the Main Menu.

3.2.2.2 Choose Company Arrow Functions

Below is a summary of what the arrow buttons in the Choose an EIA-176 Company do:



Moves the highlighted item in the left box to the right box.

Move all the items in the left box to the right box.

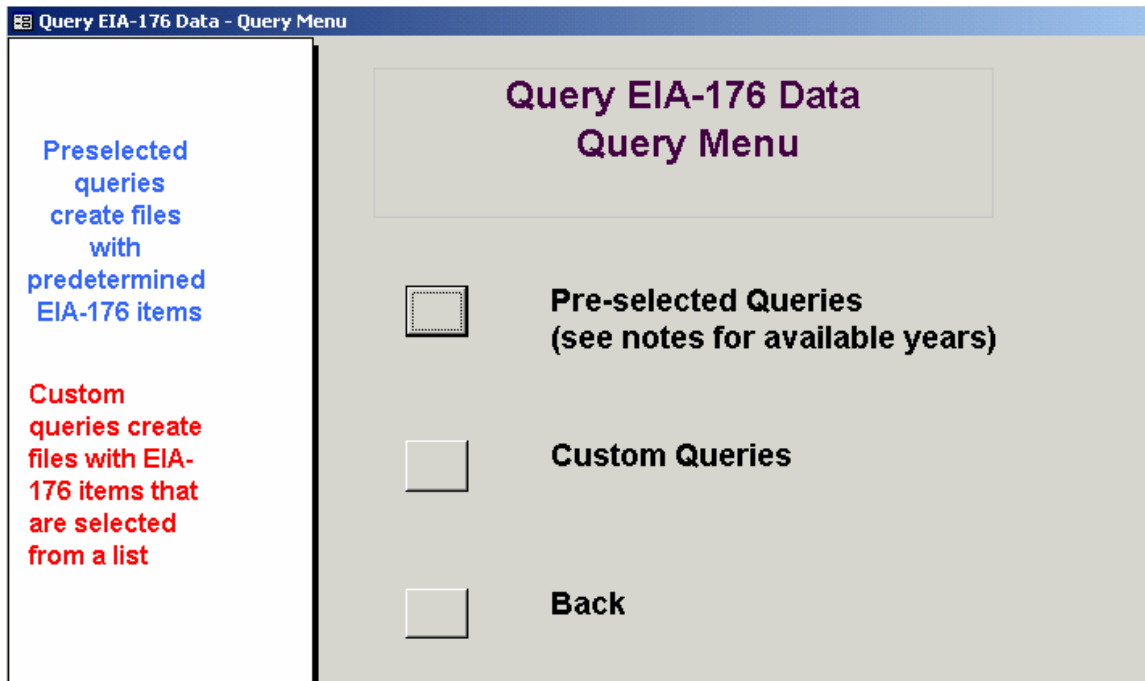
Moves the highlighted item in the right box to the left box.

Move all the items (highlighted or not) from the right box to the left box.

3.3 Query EIA-176 Data

To view, select the **Query Menu** from the **Main Menu**.

There are two query options: Pre-selected, and User-selected.



The **Pre-selected Queries** option offers 24 queries that can be run on all or selected companies. The queries and the data items they include are detailed in Appendix B.

The **User-selected Queries** option allows users to select other EIA-176 data items for inclusion in data fields. They have a structured format. The rows will always be EIA-176 companies; users may select column data values.

The following sections will describe these two options.

3.3.1 Pre-Selected Queries

Pre-selected queries are queries whose conditions have already been created. These queries save the user the trouble of having to set the desired conditions each time he/she wishes to run the pre-set query.

The following pre-set queries are available:

Sorted by:

- State
- Volumes by sector (sales + transported)
- Prices by sector
- Rankings, by volume, national, and within States
- Type of Operations

Other:

- Detailed data on continuation lines.

The first step in the pre-selected queries is to choose the year and company(s) you want to query.

3.3.1.1 Select a Company Screen

The Select Company screen for the queries is quite similar to that described in the View Respondent option which is described in section 3.3.1.

Begin by selecting a year in the **'Please enter a report year:'** .

You can select EIA-176 companies to include in your queries. If you want all companies choose the **Select All Companies** option, this retrieval method does not appear on the View Respondents menu. This will close this screen and go to the select queries screen.

The same white boxes that were used in the view respondent data are used here. If you **Select a Company in a State** you'll see a list of states to choose from.

Once you've made your selections click the Next=> button to select a query to run.

Next =>

EIA-176 Pre-selected Queries

Select a Query to Run

Selected Years: 2003

You have selected all companies

Pre-selected Queries

- All Part IV & V Items (Volumes)
- All Part VI Items (Volumes, Costs)
- All Sector Items (Volumes, Costs, Consumers)
- All Sector items sorted by state
- Sector Sector Prices
- Residential Sector Volumes - Delivered, Transported, Total
- Commercial Sector Volumes
- Company Name Information
- Industrial Sector Volumes
- Detail level Continuation Lines
- Footnotes and Associated Data Values
- Sector Vols sorted by sector

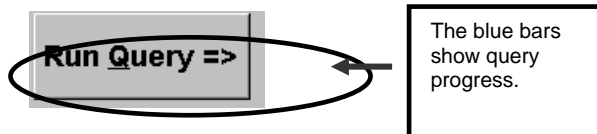
Query Description

This Query has all Part IV & V Volume items.

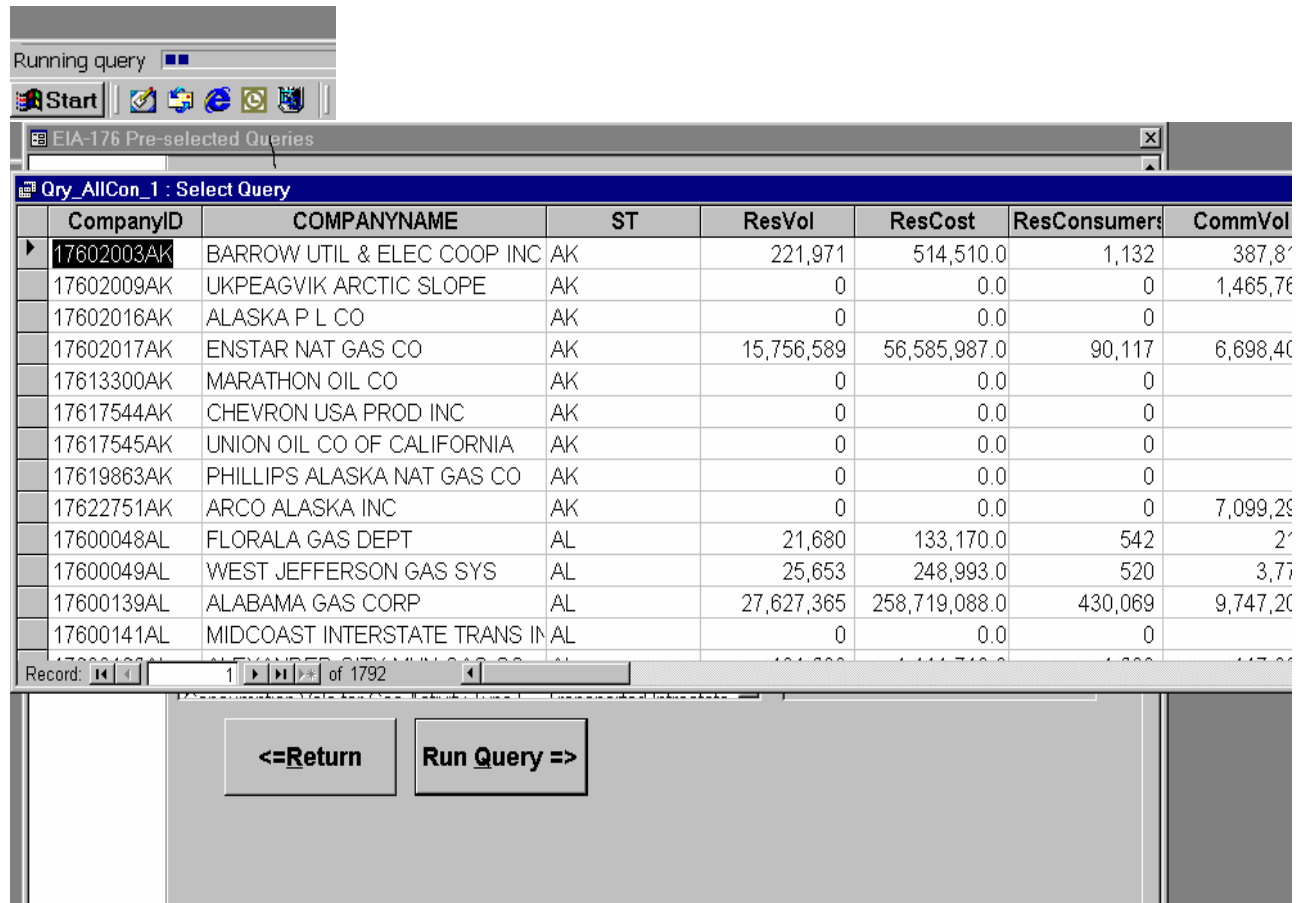
<=Back **Run Query =>**

A detailed description of each pre-selected query can be obtained by highlighting the query title. The description appears in the box titled Query Description.

Once you've selected a query by highlighting it, click the Run Query=> button to execute the query.



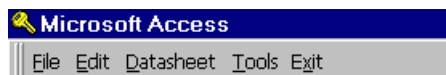
The status bar is displayed at the bottom of the screen while the query is running. Some queries take a few moments to be displayed.



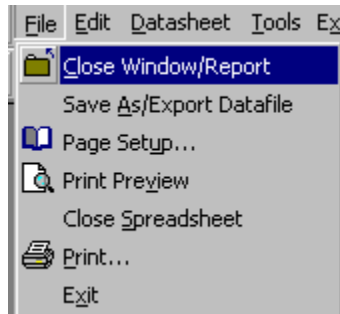
Query output is displayed in a grid on your screen.

3.3.1.3 EIA-176 Query Menu Functions

Menu items at the top of the screen are used to filter output, or export to other data formats.



File



Close – Closes the query grid.

Save As/Export – Saves the data to another file

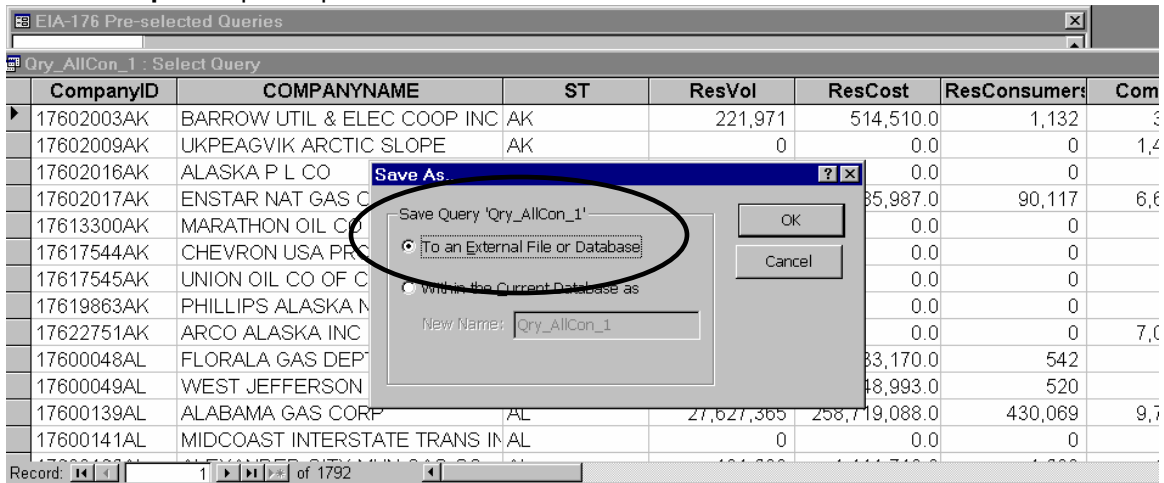
Page Setup – lets you choose print settings

Print Preview – Shows what a printout will look like

Exit – Quits the Query system.

Close – Exits the select query window.

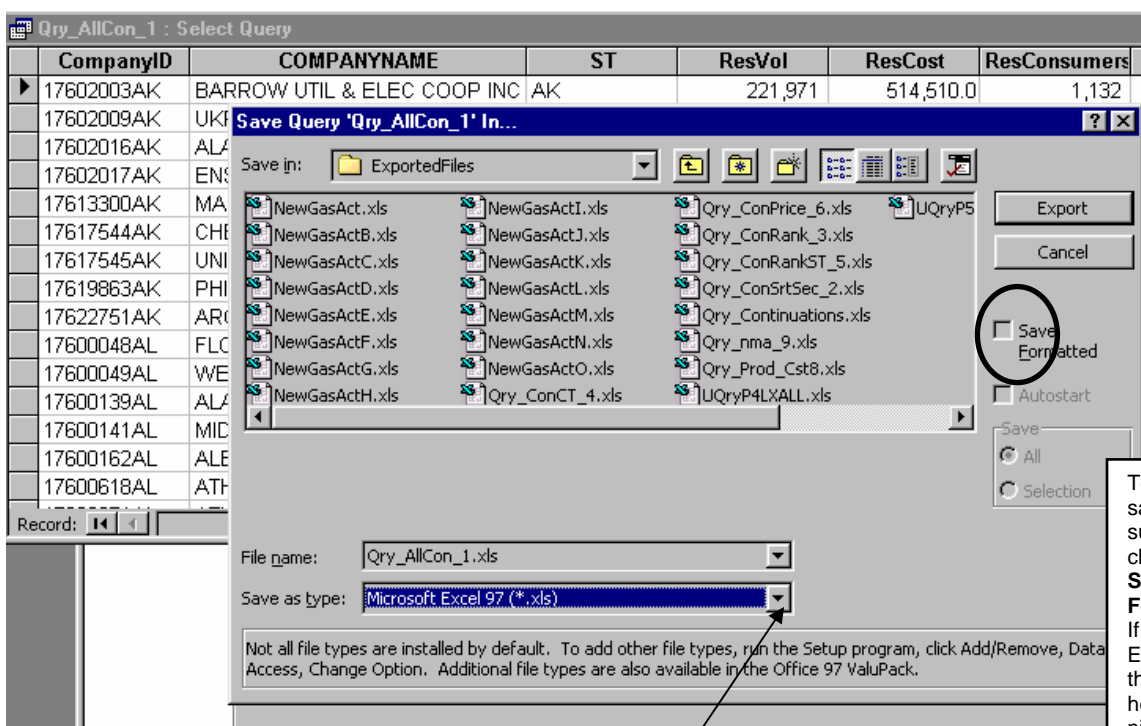
Save As/Export - option opens an intermediate box.



After you choose this option you will be presented with an initial '**Save As**' dialog box. Select the 'To an External File or Database' option, and click the OK button. You will not be able to access your file if you choose the 'Within the Current Database' option.

Next you will be presented with a Windows dialog box. Headers may look better when you select Save Formatted.

You can put your own name into the File Name box.



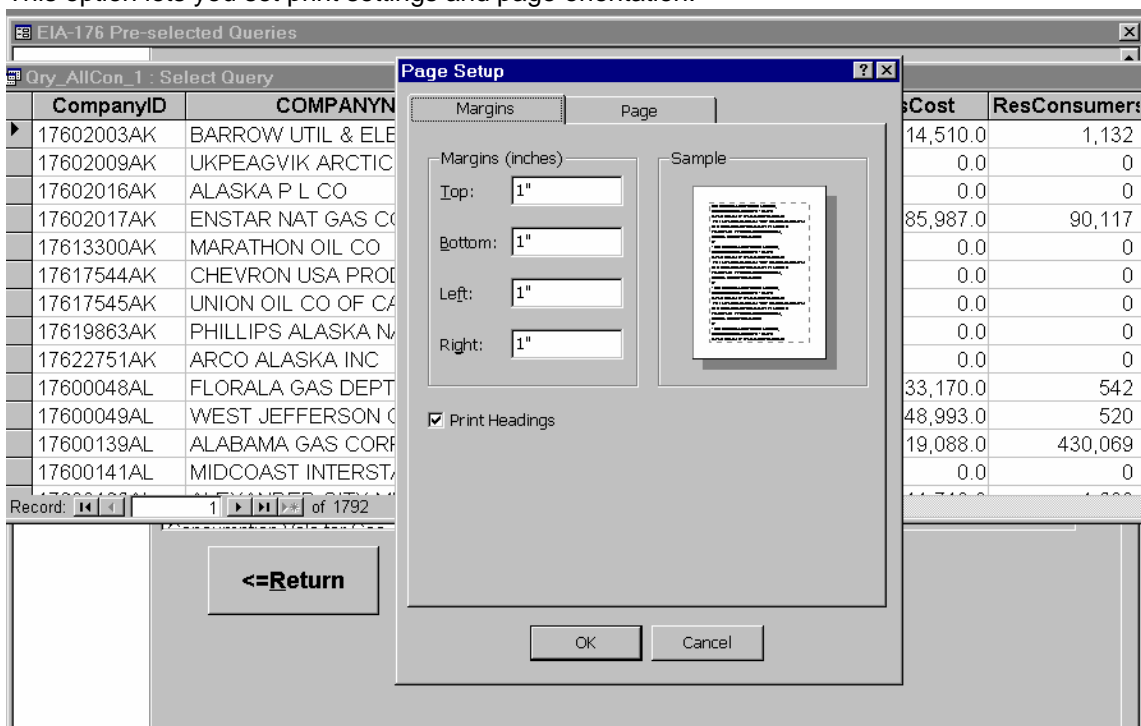
Different file type options are available by pulling down the 'Save as File Type' list box as shown. By scrolling down the list of available file types you can choose dBase formats also. Once you've named your file and selected the file type to save as click the Export button to finish

the operation.

Export

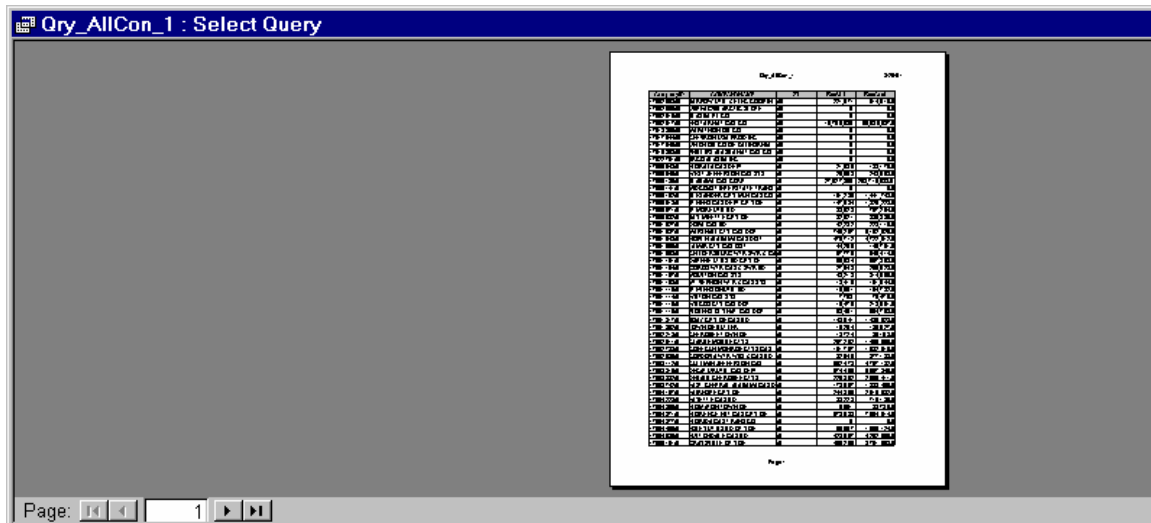
Page Setup

This option lets you set print settings and page orientation.



Most query output looks best with the print orientation Landscape. This can be selected from the Page tab.

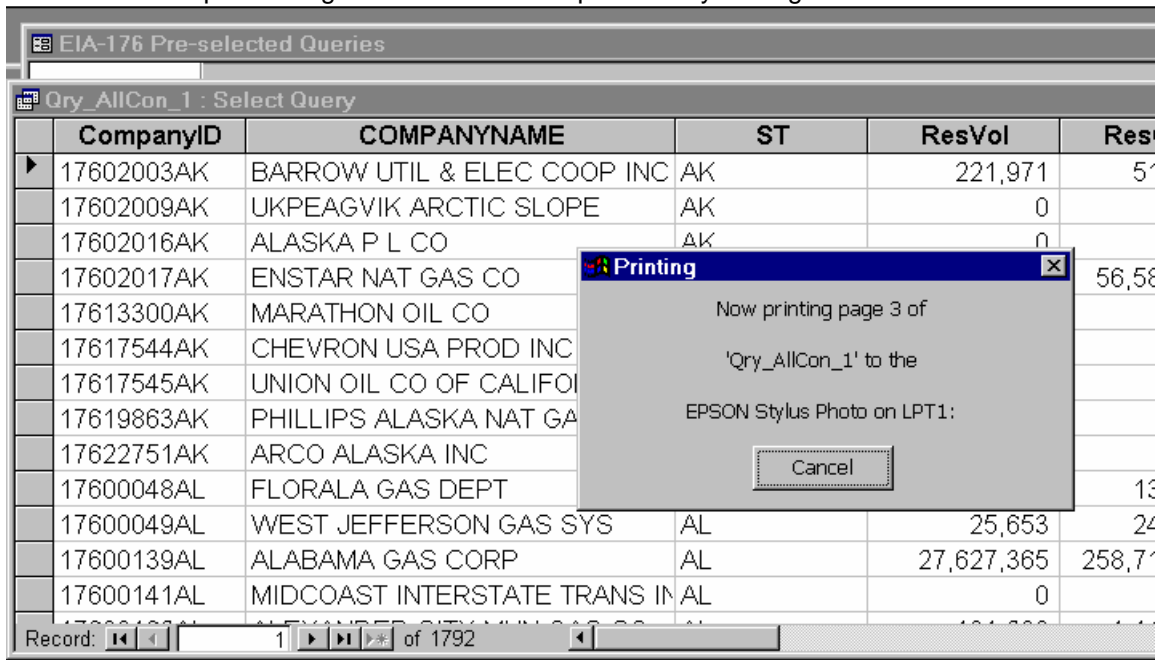
Print Preview



The Print Preview buttons lets you see what the printout will look like.

Print

The Print button prints the grid off. Some of the queries may be large.



To use the Copy option the grid or column needs to be highlighted. The entire grid can be highlighted by clicking in the upper left corner (circled). Individual columns can be highlighted by clicking in the column header.

To use Find, select just one column by clicking on the column header. The ST column is highlighted in this example.

Click in the circle to highlight the entire grid.

CompanyID	COMPANYNAME	ST	ResVol	Res
17602003AK	BARROW UTIL & ELEC COOP INC	AK	221,971	5
17602009AK	UKPEAGVIK ARCTIC SLOPE	AK	0	
17602016AK	ALASKA P L CO	AK	0	
17602017AK	ENSTAR NAT GAS CO	AK	15,756,589	56,5
17613300AK	MARATHON OIL CO	AK	0	
17617544AK	CHEVRON USA PROD INC	AK	0	
17617545AK	UNION OIL CO OF CALIFORNIA	AK	0	
17619863AK	PHILLIPS ALASKA NAT GAS CO	AK	0	
17622751AK	ARCO ALASKA INC	AK	0	
17600048AL	FLORALA GAS DEPT	AL	21,680	1

With the column selected pull down the Edit menu and click on the Find option.

CompanyID	COMPANYNAME	ST	ResVol	ResCost	F
17618300IN	OHIO VALLEY GAS INC	IN	440,343	2,850,052.0	
17619004IN	RENSSELAER GAS UTIL DEPT	IN	246,026	1,381,073.0	
17619019IN	POSEYVILLE MUN GAS CO	IN	29,650	252,386.0	
17619024IN	WESTFIELD GAS CORP	IN	103,846	867,427.0	
17619633IN	TEXAS EASTERN TRANS CORP	IN	0	0.0	
17619807IN	SWITZERLAND CTY NAT GAS CO	IN	49,851	378,354.0	
17619892IN	BAINBRIDGE MUN GAS	IN	25,260	203,595.0	
17619912IN	NAPOLEON TOWN OF	IN	13,684	96,340.0	
17619913IN	COMMUNITY NAT GAS CO INC	IN	481,939	3,571,059.0	
17680608IN	NAT GAS P L CO OF AMERICA	IN	0	0.0	
17694105IN	SIGCORE ENERGY SERVICES	IN	0	0.0	
17694713IN	VECTOR PIPELINE	IN	0	0.0	
17600032KS	ABBYVILLE CITY OF	KS	4,515	25,395.0	

Record: 518

Find in field: 'ST'

Find What: KS

Search: All

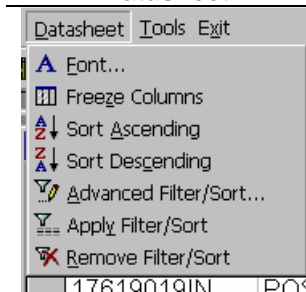
Match: Whole Field

Find First

Find Next

Close

A dialog box will appear. Enter the value you wish to search for. After you've centered the value you want to find click either Find First, or Find Next. The grid will advance to the found value or tell you that no values exist.

Datasheet

Font - adjusts the type in the grid

Freeze columns - makes the frozen column always appear

Sort Ascending/Descending - sorts the data in the grid by the selected column

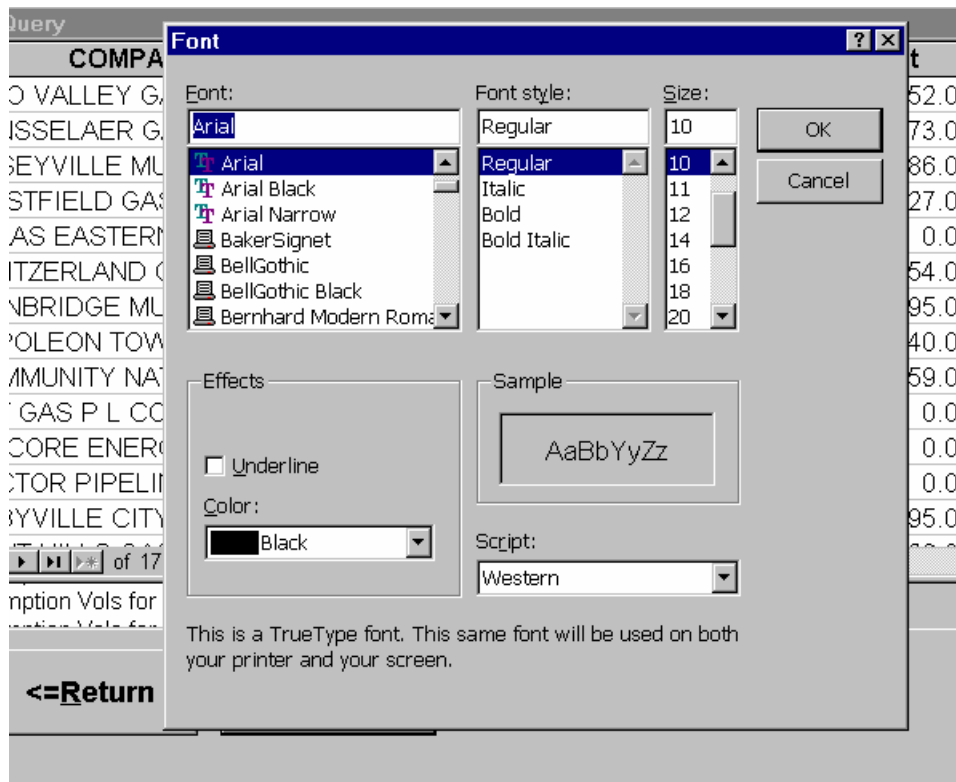
Advanced Filter - lets you enter some simple criteria for data in the query.

Apply Filter - is used in conjunction with Advanced Filter

Remove Filter/Sort - removed the Applied Filter

Datasheet items allow you to manipulate the query that you've run.

The **Font** menu item changes the font of the data in the grid.



In this example, selecting Bold turns all the items bold.

Qry_AllCon_1 : Select Query

	CompanyID	COMPANYNAME	ST	ResVol
	17618300IN	OHIO VALLEY GAS INC	IN	440,343
	17619004IN	RENSSELAER GAS UTIL DEPT	IN	246,026
	17619019IN	POSEYVILLE MUN GAS CO	IN	29,650
	17619024IN	WESTFIELD GAS CORP	IN	103,846
	17619633IN	TEXAS EASTERN TRANS CORP	IN	0
	17619807IN	SWITZERLAND CTY NAT GAS CO	IN	49,851
	17619892IN	BAINBRIDGE MUN GAS	IN	25,260
▶	17619912IN	NAPOLEON TOWN OF	IN	13,684
	17619913IN	COMMUNITY NAT GAS CO INC	IN	481,939
	17680608IN	NAT GAS P L CO OF AMERICA	IN	0
	17694105IN	SIGCORE ENERGY SERVICES	IN	0
	17694713IN	VECTOR PIPELINE	IN	0
	17600032KS	ABBYVILLE CITY OF	KS	4,515

Record: 513 of 1792

The **Freeze** column options lets you always display one column on the screen.

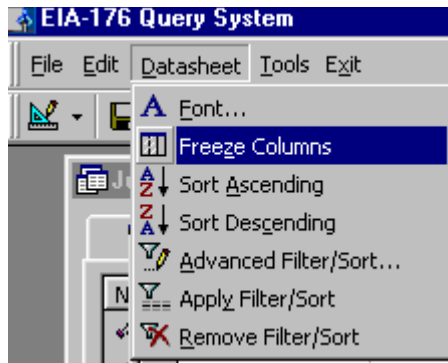
To freeze columns place your cursor in the column you wish to always view. In this example that column is COMPANYNAME.

Qry_AllCon_1 : Select Query

	COMPANYNAME	ST	CompanyID	ResVol	ResCost	R
▶	BARROW UTIL & ELEC COOP INC	AK	17602003AK	221,971	514,510.0	
	UKPEAGVIK ARCTIC SLOPE	AK	17602009AK	0	0.0	
	ALASKA P L CO	AK	17602016AK	0	0.0	
	ENSTAR NAT GAS CO	AK	17602017AK	15,756,589	56,585,987.0	
	MARATHON OIL CO	AK	17613300AK	0	0.0	
	CHEVRON USA PROD INC	AK	17617544AK	0	0.0	
	UNION OIL CO OF CALIFORNIA	AK	17617545AK	0	0.0	
	PHILLIPS ALASKA NAT GAS CO	AK	17619863AK	0	0.0	
	ARCO ALASKA INC	AK	17622751AK	0	0.0	
	FLORALA GAS DEPT	AL	17600048AL	21,680	133,170.0	
	WEST JEFFERSON GAS SYS	AL	17600049AL	25,653	248,993.0	
	ALABAMA GAS CORP	AL	17600139AL	27,627,365	258,719,088.0	
	MIDCOAST INTERSTATE TRANS IN	AL	17600141AL	0	0.0	

Record: 1 of 1792

Pull down on the Datasheet menu item and click Freeze columns.



The COMPANYNAME column always appears at the left. Even when scrolling to the right, COMPANYNAME stays on the screen:

Qry_AllCon_1 : Select Query

	COMPANYNAME	ComCost	ComConsumer	Othe
▶	BARROW UTIL & ELEC COOP INC	756,030	215	
	UKPEAGVIK ARCTIC SLOPE	507,003	3	
	ALASKA P L CO	0	0	
	ENSTAR NAT GAS CO	21,445,075	12,420	
	MARATHON OIL CO	0	0	
	CHEVRON USA PROD INC	0	0	
	UNION OIL CO OF CALIFORNIA	0	0	
	PHILLIPS ALASKA NAT GAS CO	0	0	
	ARCO ALASKA INC	9,296,911	25	
	FLORALA GAS DEPT	1,305	4	
	WEST JEFFERSON GAS SYS	25,366	22	
	ALABAMA GAS CORP	78,594,955	33,822	
	MIDCOAST INTERSTATE TRANS IN	0	0	
	ALEXANDER CITY MUNI GAS CO	0	0	

Record: 1 of 1792

Columns can be 'unfrozen' only by exiting the query grid.

Datasheet Tools Exit

Font... Freeze Columns Sort Ascending Sort Descending Advanced Filter/Sort... Apply Filter/Sort Remove Filter/Sort

Query

COMPANYNAME	ST	ResVol	Re
RROW UTIL & ELEC COOP INC	AK	221,971	5
PEAGVIK ARCTIC SLOPE	AK	0	
17602016AK ALASKA P L CO	AK	0	
17602017AK ENSTAR NAT GAS CO	AK	15,756,589	56,5
17613300AK MARATHON OIL CO	AK	0	
17617544AK CHEVRON USA PROD INC	AK	0	
17617545AK UNION OIL CO OF CALIFORNIA	AK	0	
17619863AK PHILLIPS ALASKA NAT GAS CO	AK	0	
17622751AK ARCO ALASKA INC	AK	0	
17600048AL FLORALA GAS DEPT	AL	21,680	
17600049AL WEST JEFFERSON GAS SYS	AL	25,653	
17600139AL ALABAMA GAS CORP	AL	27,627,365	258,7
17600141AL MIDCOAST INTERSTATE TRANS IN AL	AL	0	

Record: 1 of 1792

To use the sort ascending feature select a column by clicking on the column heading. Pull down the Datasheet menu and click on Sort Ascending. The query will be sorted according to the values in the selected column.

Qry_AllCon_1 : Select Query

CompanyID	COMPANYNAME	ST	ResVol
17680806TX	PANENERGY TEXAS INTRASTATE	TX	0
17694747ND	ALLIANCE PIPELINE	ND	0
17692405FL	SOUTHERN NAT GAS CO	FL	0
17692327IL	SOUTHWEST GAS STORAGE CO	IL	0
17692326MI	SOUTHWEST GAS STORAGE CO	MI	0
17690603MO	KN INTERSTATE GAS TRANSLLC	MO	0
17690514CA	CPN PIPELINE COMPANY	CA	0
17690506MS	DESTIN PIPELINE CO LLC	MS	0
17692726NM	PINNACLE NATURAL GAS CO	NM	0
17681218AR	OZARK GAS TRANS LLC	AR	0
17692724MI	SEMCO ENERGY PIPELINE	MI	0
17680619TX	LOWER COLORADO RIVER AUTHC	TX	0
17680617LA	JEFFERSON ISLAND STRGE & HU	LA	0

Record: 1 of 1792

In the example above the ResVol values are sorted in ascending order, starting with zero.

Sort descending works the same way.

Qry_AllCon_1 : Select Query				
	CompanyID	COMPANYNAME	ST	ResVol
▶	17621931CA	SOUTHERN CALIFORNIA GAS CO	CA	251,452,001
	17610322IL	NICOR GAS	IL	221,009,522
	17610617CA	PACIFIC GAS & ELEC CO	CA	211,181,852
	17617183MI	CONSUMERS ENERGY CO	MI	176,663,600
	17609432MI	MICHIGAN CONSOL GAS CO	MI	136,124,328
	17611456NJ	PUB SVC ELEC & GAS CO	NJ	132,611,115
	17670317OH	EAST OHIO GAS CO	OH	131,187,521
	17610960IL	PEOPLES GAS LT & COKE CO	IL	103,856,141
	17601565NY	KEYSPAN ENERGY DEL CO	NY	89,463,564
	17611459CO	PUB SVC CO OF COLORADO	CO	86,738,306
	17616235OH	COLUMBIA GAS DIST CO	OH	78,312,118
	17617436TX	TXU GAS DISTRIBUTION	TX	75,700,391
	17622739MN	RELIANT ENERGY MINNEGASCO	MN	68,957,997
	17610001IN	NORTHERN INDIANA PUB SVC CO	IN	61,010,001
Record: 1 of 1792				

With sort descending the largest values appear first.

Query							
	COMPANYNAME	ST	ResVol	ResCost	ResConsumers	CommVol	
	ARROW UTIL & ELEC COOP INC	AK	221,971	514,510.0	1,132	387,816	
	PEAGVIK ARCTIC SLOPE	AK	0	0.0	0	1,465,764	
17602016AK	ALASKA P L CO	AK	0	0.0	0	0	
17602017AK	ENSTAR NAT GAS CO	AK	15,756,589	56,585,987.0	90,117	6,698,403	
17613300AK	MARATHON OIL CO	AK	0	0.0	0	0	
17617544AK	CHEVRON USA PROD INC	AK	0	0.0	0	0	
17617545AK	UNION OIL CO OF CALIFORNIA	AK	0	0.0	0	0	
17619863AK	PHILLIPS ALASKA NAT GAS CO	AK	0	0.0	0	0	
17622751AK	ARCO ALASKA INC	AK	0	0.0	0	7,099,290	
17600048AL	FLORALA GAS DEPT	AL	21,680	133,170.0	542	212	
17600049AL	WEST JEFFERSON GAS SYS	AL	25,653	248,993.0	520	3,779	
17600139AL	ALABAMA GAS CORP	AL	27,627,365	258,719,088.0	430,069	9,747,205	
17600141AL	MIDCOAST INTERSTATE TRANS IN AL	AL	0	0.0	0	0	

To use the Advanced filter option no rows need to be selected. Just pull down the Datasheet menu and click on the Advanced filter option.

The filter design window will appear.

Qry_AllCon_1Filter1 : Filter

Qry_AllCon_1

- *
 - CompanyID
 - COMPANYNAME
 - ST
 - RVol

Field: []

Sort: []

Criteria: []

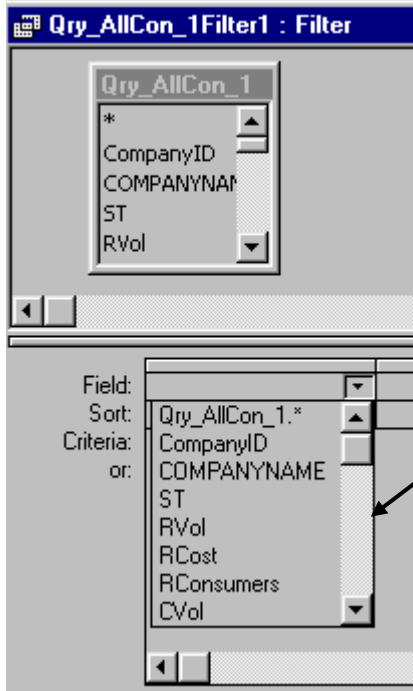
or: []

This window can be resized by stretching the edges.

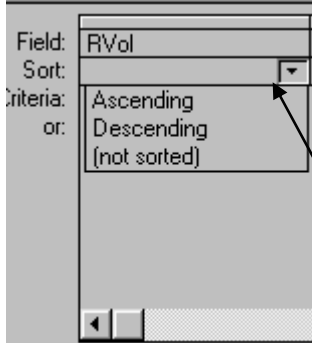
1) The first step is to copy the field you want to search from the field list into the criteria grid.

You can either drag the name of the column you want to search or sort by in the upper pane of the window into the criteria grid in the lower pane of the window, or double click on a field to copy it to the next available field cell in the grid.

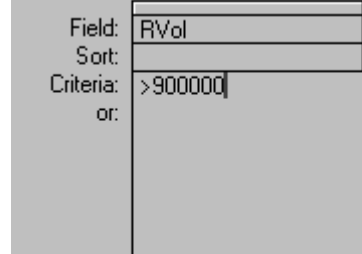
Qry_AllCon_1 : Select Query								
	CompanyID	COMPANYNAME	ST	ResVol	RVol	CommVol	C Cor	OtherNugsVol
17618617AL	CALERA CITY OF	AL	57,665	2	20,917	5	10	1,688
17616576AZ	SOUTHWEST GAS CORP	AZ	26,146,540	4	20,419,530	9	29	3,832,109
17608584CA	LONG BEACH CITY OF	CA	6,183,814	6	2,103,884	4	11	313,244
17610617CA	PACIFIC GAS & ELEC CO	CA	211,181,852	9	58,646,965	3	148	660,992
17610644CA	PALO ALTO CITY OF	CA	1,366,627	3	1,363,762	7	56	24,941
17602792CT	YANKEE GAS SVC CO	CT	13,298,447	0	7,237,666	3	50	241,615
17612046FL	INDIANTOWN GAS CO	FL	17,799	1	11,219	1	29	688,174
17613094GA	HOGANSVILLE CITY OF	GA	69,909	3	14,157	0	15	2,016
17608164IA	LAMONI MUN UTIL	IA	62,140	0	26,421	7	06	1,961
17619049IA	ROLFE MUN GAS SYS	IA	30,306	9	9,553	3	41	4,492
17606308IL	ILLINOIS PWR CO	IL	33,642,111	8	14,213,095	5	28	1,964,110
17621016KY	RICHARDSVILLE GAS CO	KY	38,675	9	6,049	3	7	2,555
17616558MA	BAY STATE GAS CO	MA	23,083,858	4	6,339,596	7	04	137,634



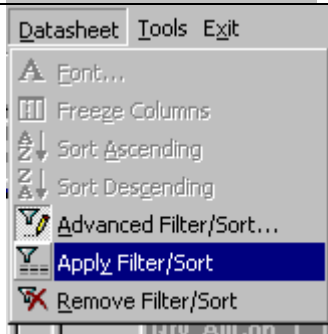
2) By clicking on the Field column in the lower pane you can get a list of fields in the query.



3) In this example we've selected the RVol field. You can pull down the sort cell and specify a sort order if you want.



4) In the Criteria cell we've entered a condition that Rvol be greater than 900000.



5) Click on the Apply/Filter Sort toolbar button when you're ready to apply the filter. Any records that don't meet the criteria you specified will disappear from the view. They have been filtered out. If you click on the Remove Filter/Sort button they will appear again.

COMPANYNAME	ST	ResVol
R NAT GAS CO	AK	17,418,738
MA GAS CORP	AL	26,272,623
WILLE NAT GAS DEPT	AL	1,791,406
EAST ALABAMA GAS DIST	AL	1,729,012
E GAS SVC CORP	AL	4,042,643
IATED NAT GAS CO	AR	1,232,041
SAS WESTERN GAS CO	AR	6,610,113
SAS OKLAHOMA GAS COF	AR	2,970,624
T ENERGY ARKLA	AR	25,186,915
CITY OF	AZ	1,024,299
WEST GAS CORP	AZ	24,913,465
S UTIL ARIZONA GAS DI V	AZ	5,527,658
BEACH CITY OF	CA	6,683,055
GAS & ELEC CO	CA	234,195,449

6) The rows that appear should meet the criteria. A note: on full survey datasets it helps to have plenty of memory available. If you run a filter and nothing changes you may not have enough memory to process.

If you have enough memory, you are not limited to one field or value. You can select several fields in the criteria grid. The EIA-176 Query system offers standard operators

- = Equals
- > Greater than
- < Less than
- >= Greater than or equal to
- <= Less than or equal to
- <> Not

To specify AND/OR criteria place the operators in different rows of the criteria grid.

Field:	ST		To express AND criteria within a single field use the AND operator
Sort:			
Criteria:	TX and MI		
or:			

This filter asks for a State value of TX AND MI.

Field:	ST	RVol	To express AND criteria between fields put each criteria on the same row of the criteria grid.
Sort:			
Criteria:	"TX "	>90000	
or:			

This statement asks for ST equal to TX and Rvol > 90000.

Field:	ST	
Sort:		
Criteria:	"TX " Or "MI"	
or:		

To express OR criteria within a single field use the OR operator.

This statement asks for ST equal to TX OR MI

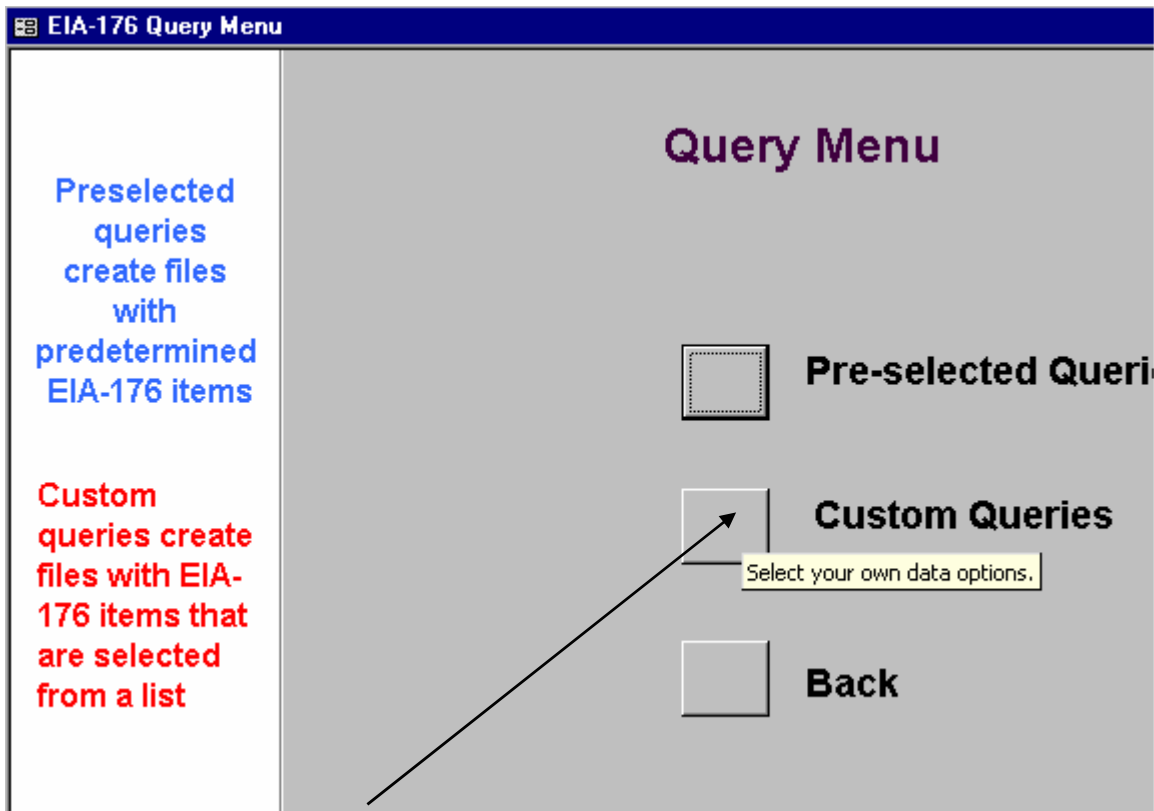
Field:	ST	RVol
Sort:		
Criteria:	"TX "	
or:	>90000	

To express OR criteria between multiple fields place the criteria on separate rows of the criteria grid.

This statement asks for ST equal to TX or Rvol > 90000.

3.3.2 - Custom Queries

The **Custom Queries** option allows you to choose individual data items from the entire EIA-176 for inclusion in datasets. The methods are similar to those used in the Pre-selected queries.



3.3.2.1 View EIA-176 Company Menu

First you will be prompted to select Companies and Year. This screen is similar to the Company selection screen in other parts of the query.

View EIA-176 Respondents - Choose Company(s)

View EIA-176 Respondents - Choose EIA-176 Company(s)

Please enter a report year:

Choose a retrieval method

☐ Select a Company in a State

☐ Select a Company by Name

1997
1998
1999
2000
2001
2002
2003

You can select one or more companies by name or state.

Use the arrow buttons to select a state or company.

View =>

Print Selections

<=Back

After you've selected companies and the year, you will go onto the Select Reported Data Items button. You'll be presented with a list of EIA-176 form data lines to pick from

3.3.2.2 Pick Reported Lines

Custom Queries - Select Reported Data Items

User-Selected Queries - for year(s): 2003

Select Reported Data Items

Select data items

Part/	LineNo/	Description
4	0110	Gas Produced onsystem by
4	0120	Synthetic natural gas produc
4	0210	Underground Storage Withdr
4	0220	Received from LNG
4	0230	Other Storage Withdrawals
4	0300	Transported into rpt ST from:
4	0400	Receipts at City Gate
4	0500	Other Receipts
4	0600	Supplemental Gaseous Fuels
4	0700	Total Supply
5	0800	Inventory of LNG
6	0900	Heat Content of consumer de
6	1010	Del to Residential Sales
6	1020	Del to Commercial Sales
6	1030	Del to Industrial sales
6	1040	Del to Electric Power Sales

AK
AL
AR
AZ
CA
CO
CT
DC
DE
FL
FX
GA
HI
IA
IN

The survey form has changed for 2002. Refer to the form, and crosswalk to the old format below.
http://www.eia.doe.gov/oil_gas/natural_gas/applications/eia176query.html

Finished Selecting

<=Back

Each line item with data from the form is represented with a short description. The Part and Line Number is also included. The highlight method is similar to that in the Company screen.

Once all your selections have been made click **Finished Selecting**.

3.3.2.3 Select Quantities and Build Calculated Items

The Select Quantities and build Calculated Items screen has three parts.

Aggregate functions

Select Company Available Quantities.

Calculated field.

Line		Description	Available Quantities					Quantities to include in Query Output				
Part	Number		Vol	Cost	Num of Consum	Btu	Mcf	Vol	Cost of	Num	Btu	Mcf
	0700	Total Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1010	Del to Residential Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1020	Del to Commercial Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1030	Del to Industrial sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1040	Del to Electric Power Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Available Quantities:

For each line item you select this portion of the screen will have a row.

The **Available Quantities** portion shows you what quantities are available for this item.

The **Quantities to include** portion allows you to include or exclude quantities.

For this example, if you aren't interested in the Number of Consumers for deliveries to Residential Sales, you would use the mouse to deselect that item, and it won't appear in your query data file.

Type Of Operations

You can select multiple Types of Operations if you choose.

If no selection is made, all types are included. If they are all included they are not identified.

Aggregate functions

The Aggregate functions provide summary statistics for all the companies selected. The Aggregate functions, the Type of Operations, and the Add calculated functions are mutually exclusive.

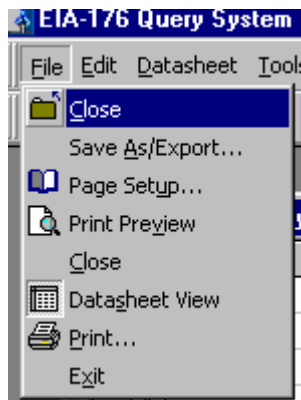
When you select Aggregate functions other options become disabled.

In the following example the Aggregate function has been grouped by Delivered to Consumers

Dynamic_Query : Select Query					
	ST	Year	SmDIResSaIvI	SmDIResSaICs	SmDIResSaINt
▶	AK	2000	17633864	64256459	88924
	AL	2000	42426740	353824275	770220
	AR	2000	36244801	261571912	554121
	AZ	2000	32940263	300781424	802469
	CA	2000	564574838	3737597351	9318830
	CO	2000	111748319	601688106	1265032
	CT	2000	38364174	404416826	442457
	DC	2000	13182680	114736868	126714
	DE	2000	8862099	76480714	115961
	FL	2000	13688251	158653956	556627
	GA	2000	59425592	259730510	867480
	HI	2000	523675	9933834	30708
	IA	2000	71408355	435303833	798790

Record: 1 of 51

The results of the query with sum aggregate function. Notice that the column headers all start with Sm – for Sum.



The File menu provides your query output options. Close – closes the query and returns you to the selection screen.

When you return to the selection screen your company, year and data item selections will still be in place. Any aggregate functions will be cleared.

 A screenshot of the 'User Selected Queries - Select Quantities and build Calculated Items' window. The window has a title bar and a toolbar with '<=Back', 'Make your type of operations and quantity selections before clicking Complete.', 'Add a Calculated Field =>', and 'Complete=>'. Below the toolbar are two sections: 'Aggregate functions' with a dropdown menu showing 'Average', 'Count', and 'Sum'; and 'Select a Type of Operations (default is All)' with a dropdown menu showing 'Investor Owned distributor', 'Municipally owned distributor', 'Privately owned distributor', and 'Co-op distributor'. At the bottom is a table with columns for 'Line Part Number', 'Description', 'Available Quantities' (Vol, Cost, Num of Consum, Btu, Mcf), and 'Quantities to include in Query Output' (Vol, Cost of, Num, Btu, Mcf). The table contains five rows of data. An arrow points from the 'Add a Calculated Field =>' button to the 'Available Quantities' section of the table.

Un-check available quantities to include or exclude quantites in you custom query		Available Quantities					Quantities to include in Query Output					
Line	Part Number	Description	Vol	Cost	Num of Consum	Btu	Mcf	Vol	Cost of	Num	Btu	Mcf
1	0700	Total Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1010	Del to Residential Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1020	Del to Commercial Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1030	Del to Industrial sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1040	Del to Electric Power Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

To **Add a Calculated Field** make your quantity selections first, and don't select an Aggregate function. Then click on the **Add a Calculated Field** button. This opens another window.

User Specified Calculations

EIA-176 Query System - User D

Available EIA-176 variables

Click on variables to add to the expression

Clear Expression Box

Use the available variables and the operators to build your expression (check your syntax)

Choose variables from this list.

Your expression will appear here.

Available EIA-176 variables

Click on variables to add to the expression

Clear Expression Box

Use the available variables and the operators to build your expression (check your syntax)

[DIResSalVol]

When you click on a variable in the Available box, then it will appear in the expression box.

Click on operators to specify your calculation.

Click on operators to add calculations ==>

+	<= Add
-	<= Subtract
*	<= Multiply
/	<= Divide
(<= left parenthesis
)	<= right parenthesis

Use the available variables and the operators to build your expression
(check your syntax)

[DIResSalVol] + [DIComSalVol]

Complete Expression

Complete your expression

parenthe
<=right
parenthe

Once you've built your expression, click on **Complete Expression** to finish.

Use the available variables and the operators to build your expression
(check your syntax)

, [DIResSalVol] + [DIComSalVol] AS

Complete Expression

Add Another
Expression=>

Finished => Run Query

Enter a Column Name

TOTAL

You must name your expression in the Enter a Column Name box.

If you want to add another expression click add **Another Expression=>**.

The expression box will be cleared out and you can start another expression. Your first expression will be held for the query.

When you are finished, click **Finished=> Run Query**. This will immediately run the query.

Note: you can click and edit the expression in the expression box.

Dynamic_Query : Select Query

	ST	COMPANYNAME	Year	DIResSalVol	DI	DI	DIComSalVol	DIC	D	DI	DI	TOTAL
▶	KS	ABBYVILLE CITY OF	2000	4427	04	11	824	+03	1	12	13	5251
	IA	MOULTON MUN GAS SYS	2000	19253	05	12	5900	+04	1	0	0	25153
	IA	BEDFORD CITY NAT GAS	2000	52014	05	12	27079	+05	2	0	0	79093
	IL	TOLEDO VILLAGE OF	2000	37026	05	12	12428	+04	1	13	14	49454
	IL	SIMS VILLAGE OF	2000	10257	04	12	330	+03	3	0	0	10587

The columns have been resized and hidden (by clicking in the column headers) to show the TOTAL variable. It is the sum of DIResSalVol And DIComSalVol.

Query : Select Query

COMPANYNAME	Year	DIResSalVol	DI	DI	DIComSalVol	DIC	D	DI	DI	DI	TOTAL
ABBYVILLE CITY OF	2000	4427	04	11	824	+03	1	12	13	2	
MOULTON MUN GAS SYS	2000	19253	05	12	5900	+04	1	0	0	0	
BEDFORD CITY NAT GAS	2000	52014	05	12	27079	+05	2	0	0	0	
TOLEDO VILLAGE OF											
SIMS VILLAGE OF											
RAND TOWER CITY OF											
MAWNEETOWN MUN GAS											
WATTSBURG GAS CO											
BITA SPRINGS NAT GAS & W											
NEW BOSTON MUN GAS SYS	2000	26343	05	12	4875	+04	1	0	0	0	

EIA-176 Query System



Do you want to save changes to the layout of query 'Dynamic_Query'?

Yes

No

Cancel

Because the columns were edited in the datasheet, this prompt appears after choosing the Close option from the File Menu. Dynamic_Query is where user selected-queries are temporarily stored. It does not matter if they are saved or not.

After you close the query you're returned to the **Select Quantities and build Calculated Items Menu**.

User Selected Queries - Select Quantities and build Calculated Items

<=Back Make your type of operations and quantity selections before clicking Complete. Add a Calculated Field => Complete=>

Aggregate functions

Average
Count
Sum

Select a Type of Operations (default is All)

Investor Owned distributor
Municipally owned distributor
Privately owned distributor
Co-op distributor
Other distributor

Un-check available quantities to include or exclude quantities in your custom query

Line Part	Number	Description	Available Quantities					Quantities to include in Query Output					
			Vol	Cost	Num of Consum	Btu	Mcf	Vol	Cost of	Num	Btu	Mcf	
0700		Total Supply	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1010	Del to Residential Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1020	Del to Commercial Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1030	Del to Industrial sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1040	Del to Electric Power Sales	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

To run the query you just constructed again you can click **Run Query**.

Exit returns you to the main queries menu.

Appendix A – EIA-176 Survey Form

Appendix B – Pre-Selected Query Items

Querydescription	QueryMemo
All Sector items sorted by state	This query includes company data sorted by state for lines 10.1 thru
Name and Address Information	This query includes the Company Name, State of Operation ,Type of
Detail level Continuation Lines	This query shows continuation lines with the company reference for Parts
Footnotes and Associated Data	This query shows data values and associated footnotes for selected
Sector Vols sorted by sector	This query includes company data sorted by sector -Residential,
Sector Vols ranked nationally	This query includes company data sorted by volume amounts.
Sector Vols sorted by company type	This query includes company data
LNG & Underground Gas Storage	This Query has LNG and Underground Storage Injections & Withdrawals,
Sector Vols ranked by state	This query includes Company data sorted and ranked by volume amount
Sector Prices sorted by sector	This query includes prices for consumption data - lines 10.1 thru 10.4,
Sector Vols for Investor Owned	This query includes only companies who checked A on Section II. Type
Sector Vols for Municipally Owned	This query includes only companies who checked B on Section II. Type
Sector Vols for Privately Owned	This query includes only companies who checked C on Section II. Type
Sector Vols for Cooperatively	This query includes only companies who checked D on Section II. Type
Sector Vols for Other Distribution	This query includes only companies who checked E on Section II. Type
Sector Vols for Interstate Pipelines	This query includes only companies who checked F on Section II. Type
Sector Vols for Intrastate Pipelines	This query includes only companies who checked G on Section II. Type
Sector Vols for Storage Operators	This query includes only companies who checked H on Section II. Type
Sector Vols for Synthetic Natural	This query includes only companies who checked I on Section II. Type of
Sector Vols for Producers	This query includes only companies who checked J on Section II. Type
Sector Vols for Gathers	This query includes only companies who checked K on Section II. Type
Sector Vols for Liquefied Natural	This query includes only companies who checked L on Section II. Type
Sector Vols for Other Operators	This query includes only companies who checked M on Section II. Type

Appendix C – User Selected Query Item names

UserQueryName	UQPart	UQLin
Gas Produced onsystem by company	4	0110
Synthetic natural gas produced	4	0120
Underground Storage Withdrawals	4	0210
Received from LNG	4	0220
Other Storage Withdrawals	4	0230
Transported into rpt ST from: ST or Cntry	4	0300
Receipts at City Gate	4	0400
Other Receipts	4	0500
Supplemental Gaseous Fuels	4	0600
Total Supply	4	0700
Inventory of LNG	5	0800
Heat Content of consumer deliveries	6	0900
Del to Residential Sales	6	1010
Del to Commercial Sales	6	1020
Del to Industrial sales	6	1030
Del to Electric Utility Sales	6	1040
Del fo Vehicle Fuel	6	1050
Del to Other (see footnotes for type)	6	1060
Trans to Residential Consumers	6	1110
Trans to Commercial Consumers	6	1120
Trans to Industrial Consumers	6	1130
Trans to Electric Utilities	6	1140
Trans for Vehicle Fuel use	6	1150
Trans to Other (see footnotes for type)	6	1160
Pipeline Compressor Use	6	1210
New Pipeline Fill	6	1220
Distribution Company Use	6	1230
Other (see footnotes for type)	6	1240
Underground Storage Injections	6	1310
Liquefied natural gas (LNG) Injections	6	1320
Other Storage Injections (see footnotes for type)	6	1330
Trans to State Line: Comp ST/Cntry	6	1400
Lease Use	6	1500
Returned to oil and/or gas reservoirs	6	1600
Losses from leaks, migration, damage and/or	6	1700
Other Disp: Distribution Companies	6	1810
Other Disp: Other Pipelines	6	1820
Other Disp: Storage Operators	6	1830
Other Disp: Other (Specify type)	6	1840
Total Disposition	6	1900
Unacc't for gas supply	6	2000

